

Patent Claims

1. Liquid concentrate for the preservation of cosmetic and pharmaceutical products based on 3-iodo-2-propynyl butylcarbamate (IPBC), characterized in that
5 it, in addition to IPBC, comprises a liquid carrier chosen from polyvalent alcohols, glycol esters and glycol ethers or any mixture thereof and a stabilizer chosen from formic acid, formate salts and formate esters or any mixture thereof, no additional carboxylic
10 acid chosen from benzoic acid, propionic acid, salicylic acid, sorbic acid, 4-hydroxybenzoic acid, dehydroacetic acid and 10-undecylenic acid or a salt thereof being present.
- 15 2. Liquid concentrate according to Claim 1, characterized in that it comprises, with reference to the total weight, 0.01 up to 20 weight% of IPBC, preferably 0.1 up to 5 weight% of IPBC, in particular 0.1 up to 2 weight% of IPBC and particularly preferably
20 up to 1 weight% of IPBC.
3. Liquid concentrate according to Claim 1 or 2, characterized in that it comprises, as liquid carrier, a polyvalent alcohol, in particular a diol, preferably
25 a glycol and more preferably ethylene glycol, 1,2-propylene glycol, 1,3-propylene glycol, 1,2-butylene glycol, 1,3-butylene glycol, 1,4-butylene glycol, 1,2-pentanediol, 1,3-pentanediol, 1,4-pentane-
30 diol or 1,5-pentanediol, or a glycol ester or glycol ether, in particular an ethylene glycol, propylene glycol or butylene glycol, preferably diethylene glycol, triethylene glycol or a polyethylene glycol, or any mixture thereof, particularly preferably
35 triethylene glycol or 1,2-propylene glycol.
4. Liquid concentrate according to Claim 1, 2 or 3, characterized in that it comprises, as stabilizer, formic acid, sodium formate, potassium formate, formic acid propylene glycol mono- or diester or formate

esters formed in situ or any mixture thereof, in particular formic acid.

5. Liquid concentrate according to Claim 4, characterized in that it comprises the stabilizer in an amount, with reference to the total weight, of 0.001 to 20 weight%, more preferably 0.05 to 10 weight%, particularly preferably 0.05 to 5 weight% and most preferably up to 2 weight%, less than 0.5 and in particular less than 0.2 weight% being particularly preferred.

6. Liquid concentrate according to one of Claims 1 to 5, characterized in that it comprises additional active agents, functional additives and/or auxiliaries.

7. Liquid concentrate according to Claim 6, characterized in that it comprises, as additional active agent, polybiguanide and/or a polybiguanide salt, preferably in an amount, with reference to the total weight, of 0.1 up to 20 weight%, more preferably up to 5 weight%, particularly preferably up to 2 weight% and most preferably up to 1 weight%.

8. Liquid concentrate according to Claim 7, characterized in that the weight ratio of IPBC to polybiguanide or polybiguanide salt is 100:1 to 1:100, preferably 10:1 to 1:10 and more preferably 1:2 to 2:1.

9. Liquid concentrate according to Claim 7 or 8, characterized in that the concentrate comprises ≤ 1 weight% of IPBC, in particular 1 weight%, and ≤ 1 weight% of polybiguanide/polybiguanide salt, in particular 0.95 weight%.

10. Liquid concentrate according to one of Claims 1 to 9, characterized in that it is anhydrous or comprises water as auxiliary, the content of water then preferably, with reference to the total weight, being

0.01 up to 10 weight%, more preferably up to 5 weight%, more preferably still up to 4.5 or up to 4 weight%, particularly preferably up to 0.2 weight%.

5 11. Liquid concentrate according to one of Claims 1 to 10, characterized in that it comprises, as additional active agent, a paraben, in particular methyl-, ethyl-, propyl- or butylparaben, a quaternary ammonium compound, in particular polyhexamethylene-
10 biguanide or a salt thereof, a benzalkonium salt, in particular benzalkonium chloride, formaldehyde or a formaldehyde-depositing compound or a salt thereof, in particular dimethyloldimethylhydantoin (DMDMH), imidazolidinylurea, diazolidinylurea, hexetidine,
15 5-bromo-5-nitro-1,3-dioxane (bronidox), 2-bromo-2-nitro-1,3-propanediol (bronopol), 1,3,5,7-tetraazaadamantane (hexamethylenetetramine), 4,4-dimethyl-1,3-oxazolidine, benzyl alcohol hemiformal, 5-ethyl-1-aza-3,7-dioxabicyclo[3.3.0]octane, 1-(3-chloroallyl)-
20 3,5,7-triaza-1-azoniaadamantane chloride or mixtures thereof, phenoxyethanol, phenoxypropanol, benzyl alcohol, a halogen compound, in particular dibromodicyanobutane (DBDCB), an amidine compound, in particular hexamidine or dibromohexamidine, or a salt
25 thereof, or an isothiazolone, in particular N-methylisothiazolone or N-octylisothiazolone, or any mixture of the abovementioned compounds.

12. Process for the preparation of a liquid
30 concentrate according to one of Claims 1 to 11, characterized in that the constituents are mixed with one another and the mixture is optionally subsequently held for 0.5 hour to 48 hours at a temperature of 30 to 70°C, in particular 30 up to 60°C, more preferably 30
35 up to 50°C.

13. Use of a liquid concentrate according to one of the preceding claims in the preparation of cosmetic and pharmaceutical products.

14. Use of a liquid concentrate according to one of the preceding claims in the preservation of cosmetic and pharmaceutical products.